

Fig. 1

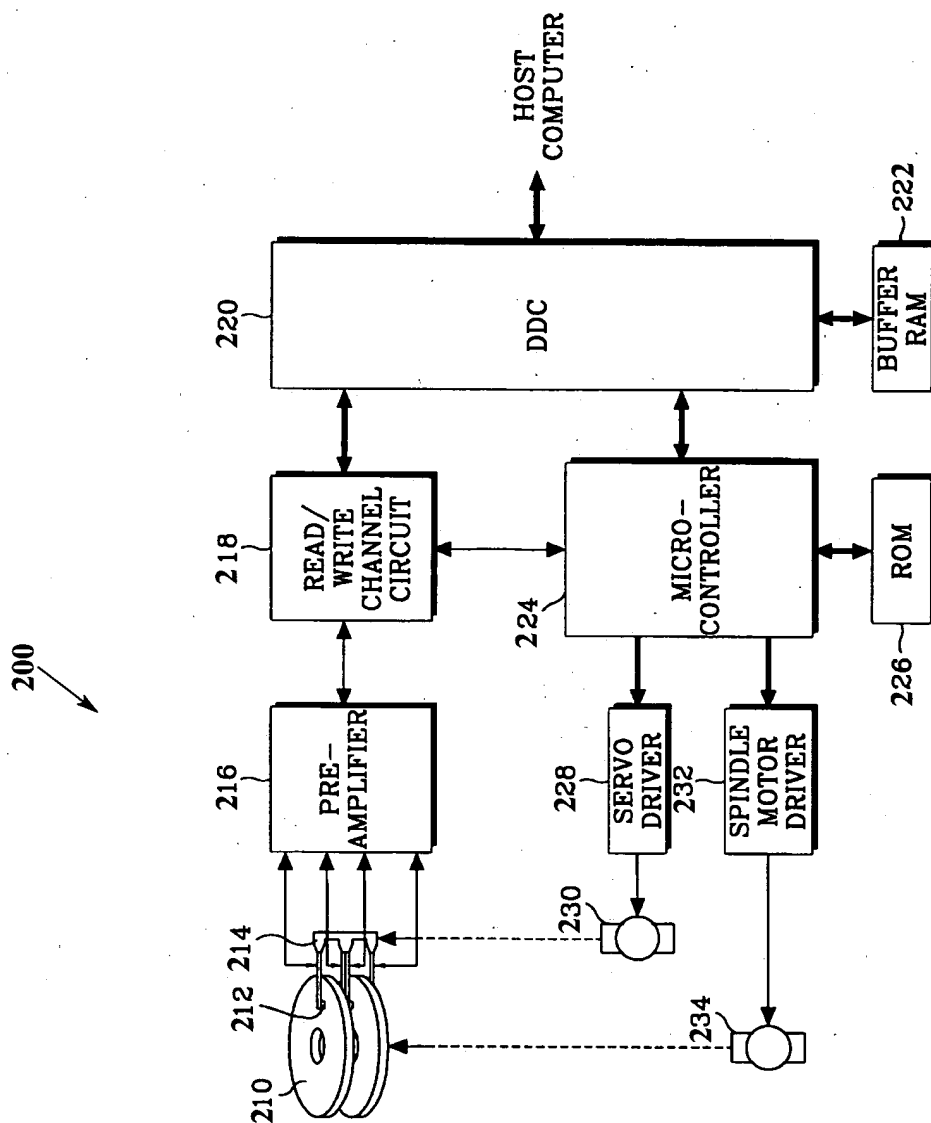


FIG. 2

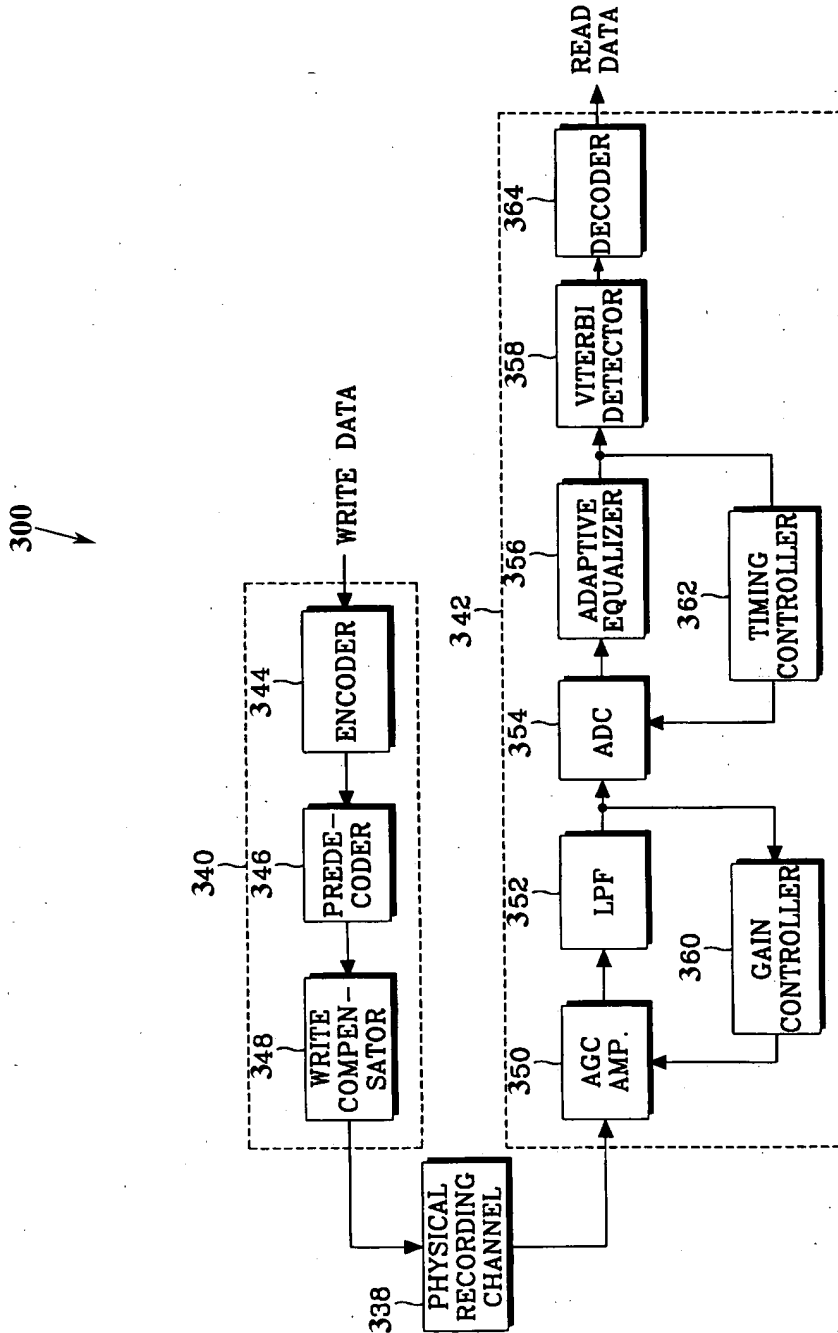


FIG. 3

Title: APPARATUS USING A LENGTHENED
 EQUALIZATION TARGET FILTER WITH A
 MATCHED FILTER METRIC IN A VITERBI DETECTOR
 Applicants: Cideciyan, et al.
 Docket: HSJ920030152US1/HITG.046PA
 Sheet 4 of 6

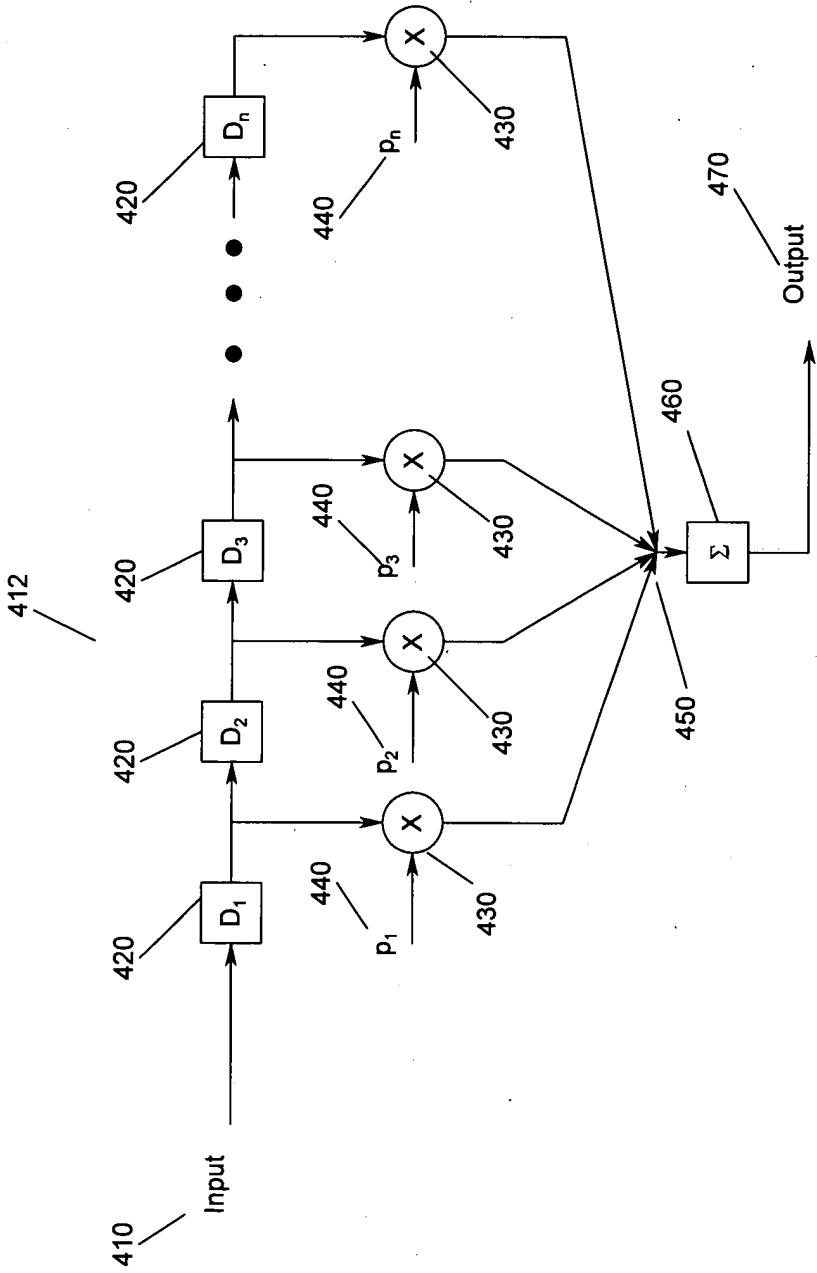
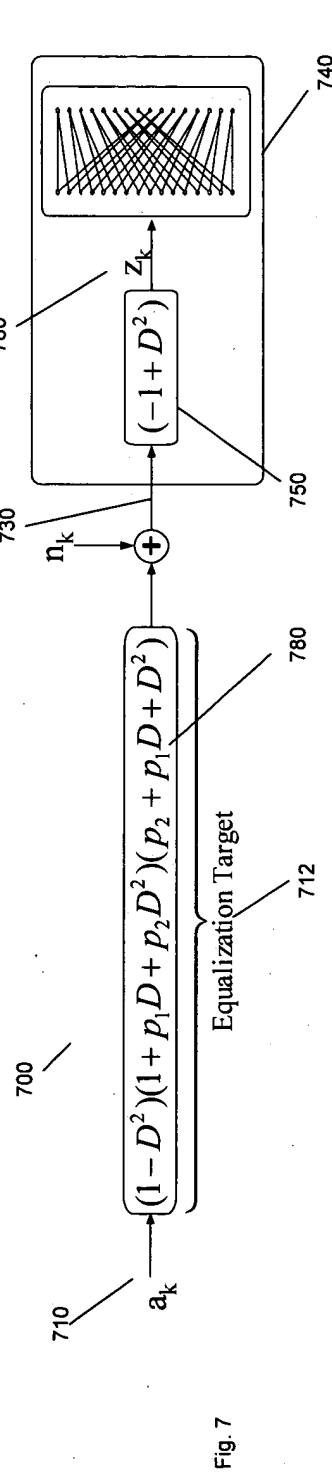
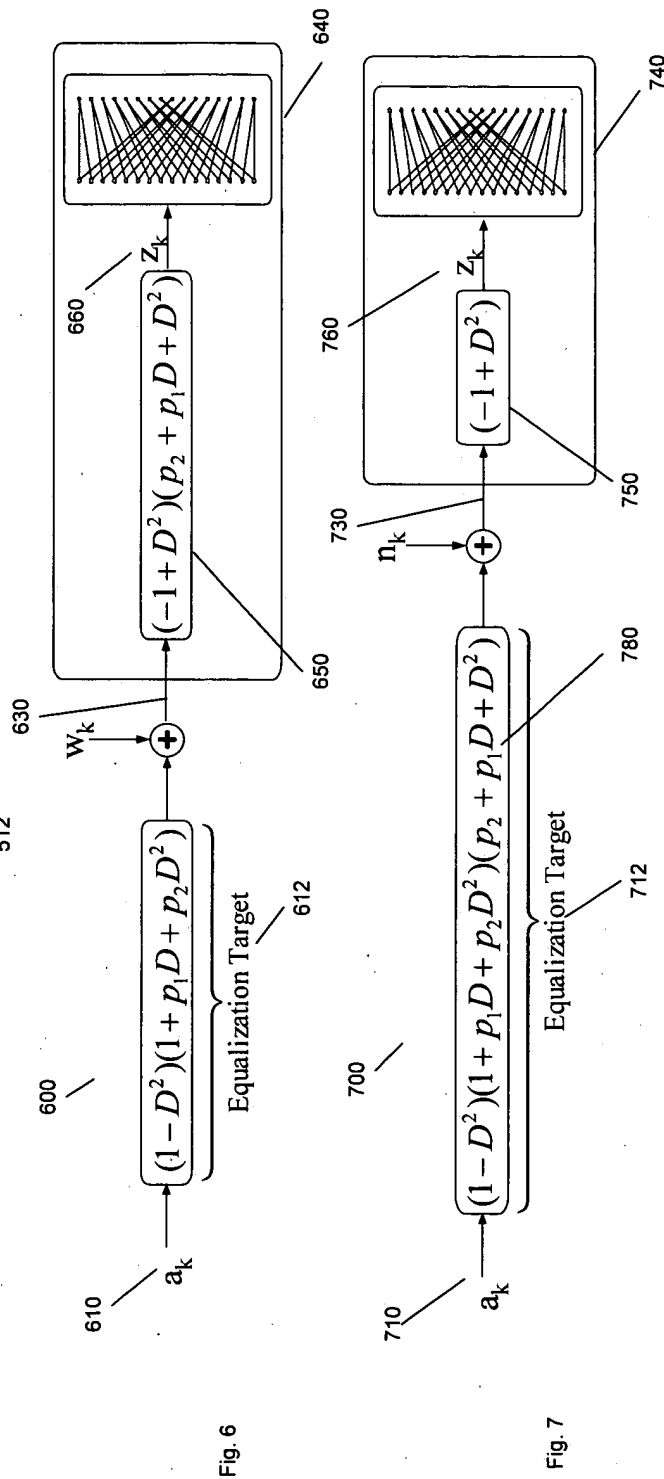
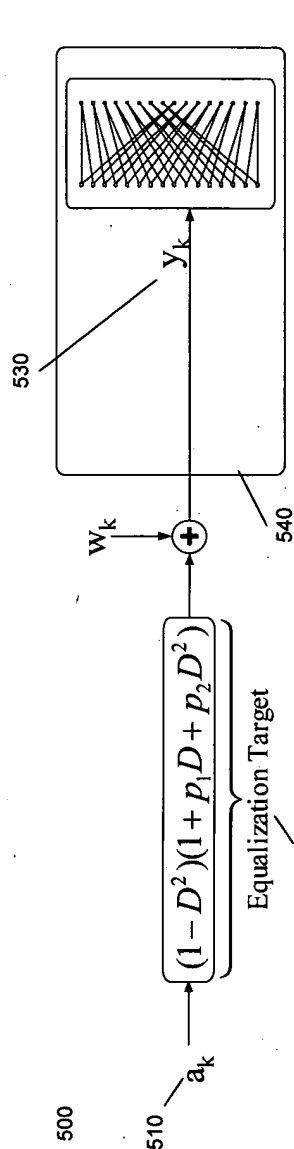


Fig. 4



800

Docket: HSJ920030152US1/HITG.046PA

810

812

$$a_{k-4}a_{k-3}, a_{k-2}, a_{k-1}$$
$$\mathbf{a}_k$$

1111 ●

 $\bullet -z_k$

0111 ●

 $\bullet -z_k$

1011 ●


 $-z_k$

0011 •

 $-z_k$

1101 •

 $\bullet -z_k$

0101 ●


 $-Z_k$

1001 ●

 $\bullet -z_k$

0001 •



A diagram of a vertex, represented by a solid black circle with a short line segment extending from its bottom-left corner. To the right of the vertex is the label $-z_k$.

1110 ●

4b - 4

0110 ●

4b - 4a -

1010 ●

4
2

0010 ●

-4a

1100 ●

 $4b + 4a$

0100 ●

4b-4

1000 ●

4a +0

0000 ●

+0

These branch adders
contain only the
signal term Z_k

830

820

- These branch adders contain only constants

840

Fig. 8